

6. (Amended) Mechanical part according to claim 4, wherein said amorphous hard carbon film has hardness of from Vickers 1800 to 2500.

7. (Amended) Mechanical part according to claim 4, wherein said amorphous hard carbon film is from 2 to 15 μm thick.

8. (Amended) Mechanical part according to claim 4, wherein the mechanical part is a piston ring.

9. (Amended) Mechanical part according to claim 4, wherein said mechanical part is a vane of a compressor.

10. (Amended) Mechanical part according to claim 1, wherein the mechanical part is a plunger of a fuel-injecting pump.

11. (Amended) A method for forming an amorphous hard carbon film, characterized in that carbon material, metal-containing material and oxygen are introduced into a vacuum chamber where a substrate is placed, thereby forming an amorphous hard carbon film,

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in which metal oxide is contained.

12. (Amended) A method for forming an amorphous hard carbon film, characterized in that carbon material, metal-containing material and oxygen-containing material are introduced into a vacuum chamber where a substrate is placed, thereby forming an amorphous hard carbon film, in which metal oxide is contained.

Please add claims 13-19.

13. (New) Mechanical part according to claim 5, wherein said amorphous hard carbon film has hardness of from Vickers 1800 to 2500.

14. (New) Mechanical part according to claim 5, wherein said amorphous hard carbon film is from 2 to 15 μm thick.

15. (New) Mechanical part according to claim 5, wherein the mechanical part is a piston ring.

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16. (New) Mechanical part according to claim 5, wherein
said mechanical part is a vane of a compressor.

17. (New) Mechanical part according to claim 2, wherein
the mechanical part is a plunger of a fuel-injecting pump.

18. (New) Mechanical part according to claim 3, wherein
the mechanical part is a plunger of a fuel-injecting pump.

19. (New) Mechanical part according to claim 4, wherein
the mechanical part is a plunger of a fuel-injecting pump.